



**CONTRACT NO: HY/2019/18**

**WANCHAI DEVELOPMENT PHASE II AND CENTRAL  
WANCHAI BYPASS  
SAMPLING, FIELD MEASUREMENT AND TESTING WORK  
(STAGE 4)**

**ENVIRONMENTAL PERMIT NO. EP-364/2009/H,  
FURTHER ENVIRONMENTAL PERMIT NOS. FEP-01/364/2009,  
FEP-06/364/2009/A, FEP-07/364/2009/H, FEP-10/364/2009/B AND  
FEP-11/364/2009/E**

**MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT**

**- JUNE 2020 -**

**CLIENTS:**

**Civil Engineering and Development  
Department**

**and**

**Highways Department**

**PREPARED BY:**

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**CERTIFIED BY:**

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Raymond Dai  
Environmental Team Leader

**DATE:**

13 July 2020

13 July 2020

AECOM Asia Company Limited  
11/F, Tower 2  
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138 Shatin Rural Committee Road  
Shatin, New Territories  
Hong Kong

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Mr. Ng,

**Re: Wan Chai Development Phase II - Central-Wan Chai Bypass  
Monthly Environmental Monitoring and Audit Report (June 2020)  
for EP-364/2009/H, FEP-01/364/2009, FEP-06/364/2009/A,  
FEP-07/364/2009/H, FEP-10/364/2009/B and FEP-11/364/2009/E**

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for June 2020 received by e-mail on 13 July 2020 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permits.

Thank you very much for your attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,



David Yeung  
Independent Environmental Checker

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**EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – [June 2020](#) specific for Environmental Permit no. EP-364/2009/H, Further Environmental Permit nos. FEP-01/364/2009, FEP-06/364/2009/A, FEP-07/364/2009/H, FEP-10/364/2009/B and FEP-11/364/2009/E. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HY/2019/18 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 4). This report presents the environmental monitoring findings and information recorded during the period of [27 May 2020 to 26 June 2020](#).
- ii. The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HY/2019/18 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 4) from 11 December 2019 in continuation of the previous Environmental Team employed under Contract HK/2011/07 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 2) and Contract HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3).
- iii. In the reporting period, the principal work activities of individual contracts are included as follows:

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- [Water Seepage rectification at tunnel](#)

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- [Bridge noise enclosure construction & road resurfacing works.](#)
- [Hing Fat Street road works.](#)
- [Soft Landscaping works.](#)
- [Open area hard paving & fire main laying works.](#)
- [D9 to D12 and P22 to P25 drainage works.](#)
- [Rumsey Street modification works.](#)

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009/B

- [Drainage improvement works](#)
- [Utility diversion works](#)

Contract no. HY/2011/08 –Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

- [Architectural, builder's work & finishing at all buildings](#)
- [Scaffolding & edge cladding installation work](#)



- E&M remedial/ maintenance works
- Roadside directional sign modification works
- Lifting of TVF at EVB

### Noise Monitoring

- iv. Noise monitoring during daytime was conducted at M1a – Footbridge for Harbour Road Sports Center; M2b - Noon-day gun area; M3a - Tung Lo Wan Fire Station; M4b - Victoria Centre; M5b - City Garden, M6 - HK Baptist Church Henrietta Secondary School, M7e and M7w – International Financial Centre East Podium and International Finance Centre West Podium and M8 – City Hall on weekly basis in the reporting period.
- v. With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Road Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.
- vi. With respect to the demolition of Ex-Harbour Road Sports Centre, the respective noise monitoring station M1a – Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge for Harbour Road Sports for noise monitoring.
- vii. With respect to the non-CWB Project building construction at Oil Street, the real-time noise monitoring station RTN2a- Hong Kong Electric Centre was finely adjusted from Northeast Side to Northwestern side at Roof Top location on 03 March 2017.
- viii. Noise monitoring at M4b - Victoria Centre was temporarily relocated to the G/F of Victoria Centre due to the access difficulty on 23 March 2020. The temporary noise monitoring point for M4b has been proposed and agreed by the IEC at the G/F of Victoria Centre. Noise monitoring for M4b will resume to original location upon completion of maintenance works for the premises.
- ix. Noise monitoring at M8 - City Hall was temporarily suspended from 2 February 2020 to the end of reporting period as the City Hall was temporarily closed due to public health concern. A temporary noise monitoring point for M8 has been proposed and agreed by the IEC at the entrance of the City Hall. Noise monitoring for M8 was resumed at the temporary noise monitoring point at the entrance of the City Hall on 26 February 2020. Noise monitoring for M8 - City Hall was resumed to original location at the podium on 3 June 2020.
- x. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitfield Depot. No action or limit level exceedance was recorded in the reporting period.
- xi. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. No action or limit level exceedance was recorded in the reporting period.
- xii. 24-hour real time noise monitoring at RTN3 - Yu Lee Mo Fan Memorial School was temporary suspended from 31 January 2020 as the school is temporarily closed and refused our access for station maintenance due to public health concern. Real Time Noise Monitoring at RTN3 will be resumed when the access to the school for station maintenance is granted.
- xiii. 24-hour real time noise monitoring was conducted at RTN4 – Causeway Bay Community Centre. No action or limit level exceedance was recorded in the reporting period.

### Air Quality Monitoring

- xiv. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Harbour Grand Hotel Boundary Wall; CMA2a - Causeway Bay Community Center; CMA3a - CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to

- Animals; CMA5b - Pedestrian Plaza; MA1e and MA1w – International Finance Centre eastern and western podium on every six days basis.
- xv. With respect to the proposed demolition of eastern podium of Oil Street Site Office, the respective air quality monitoring station CMA1b – Oil Street Site Office was finely adjusted from East podium of the Oil Street Site Office to the West podium of the Oil Street Site Office on 21 December 2016.
- xvi. With respect to the proposed demolition of the Oil Street Site Office, the respective air quality monitoring station CMA1b – Harbour Grand Hotel Boundary Wall was finely adjusted from the Oil Street Site Office to Harbor Grand Hotel Boundary Wall from 05 June 2017 onwards.
- xvii. **No action or limit level exceedance was recorded in the reporting period.**

#### Complaints, Notifications of Summons and Successful Prosecutions

- xxviii. **No environmental complaints, summons and prosecutions were received during reporting period.**

#### Site Inspections and Audit

- xix. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/19, HY/2010/08, HK/2009/02 and HY/2011/08 in this reporting period.
- xx. Construction of bored pile E3B under HY/2009/17 was confirmed completed and the respective work area under FEP-03/364/2009 was handover and inspected under HY/2009/19 from 19 Dec 2012 onwards.
- xxi. Construction works under HK/2010/06 was confirmed completed and the respective work area under FEP-08/364/2009/A was handover and inspected under HK/2012/08 from 22 Sep 2014 onwards.
- xxii. As confirmed with CWB RSS, the construction works under Contract HY/2009/15 was completed from 27 October 2017 onwards. The respective weekly site audit inspection for HY/2009/15 was therefore suspended from 27 October 2017 onwards.
- xxiii. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.
- xxiv. As confirmed with CWB RSS, the construction works under Contract HY/2009/18 was completed from 25 April 2018 onward. The respective weekly site audit inspection for HY/2009/18 was therefore temporary suspended from 27 April 2018 onwards.
- xxv. As confirmed with WDII RSS and with respect to the joint inspection conducted with IEC on 25 May 2018, RSS, ET and IEC share the view that there is no adverse environmental impact of remaining works under Contract HK/2009/01 and the respective environmental site inspection was temporary suspended from 26 May 2018 onwards.
- xxvi. As confirmed by CWB RSS, the seabed reinstatement works was resumed under Contract HY/2009/15 at EX-PCWA area on 26 June 2019 and the respective weekly site audit inspection for HY/2009/15 was resume from 26 June 2019 onwards and report under FEP-04/356/2009 in EP-356/2009 Monthly EM&A Report.
- xxvii. As confirmed by CWB RSS, the seabed reinstatement works was resumed under Contract HY/2010/08 at CBTS area on 7 August 2019 and the respective environmental monitoring for HY/2010/08 was resume from 7 August 2019 onwards and report under FEP-07/356/2009 in EP-356/2009 Monthly EM&A Report.

- xxviii. As WDII RSS confirmation of construction works completion on 21 October 2019 and agreed with IEC on 1 November 2019, the weekly environmental site inspection for Contract no. HK/2012/08 under EP-364/2009/G was suspended from 1 November 2019 onward.

#### Future Key Issues

- i. In the coming reporting period, the principal work activities of individual contracts are anticipated as follows:

#### Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- [Water Seepage rectification at tunnel](#)

#### Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- [Bridge noise enclosure construction & road resurfacing works.](#)
- [Hing Fat Street road works.](#)
- [Soft landscaping works.](#)
- [Open area hard paving & fire main laying works.](#)
- [D9 to D12 and P22 to P25 drainage works.](#)
- [Rumsey Street modification works.](#)

#### Contract no. HY/2010/08 – Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009/B

- [Drainage improvement works](#)
- [Utility diversion works](#)

#### Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

- [Architectural, builder's work & finishing at all buildings](#)
- [E&M remedial/ maintenance works](#)
- [Roadside directional sign modification works](#)
- [Lifting of TVF at EVB](#)

## 1 INTRODUCTION

### 1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-364/2009/H and Further Environmental permit nos. FEP-01/364/2009, FEP-06/364/2009/A, FEP-07/364/2009/H, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and “*Environmental Monitoring and Audit Requirements*” under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-364/2009/H, Further Environmental Permit (FEP) nos. FEP-01/364/2009, FEP-06/364/2009/A, FEP-07/364/2009/H, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D during the period [27 May 2020 to 26 June 2020](#).

### 1.2 Structure of the Report

**Section 1**     *Introduction* – details the scope and structure of the report.

**Section 2**     *Project Background* – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.

**Section 3**     *Status of Regulatory Compliance* – summarizes the status of valid

Environmental Permits / Licenses during the reporting period.

- Section 4**     ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- Section 5**     ***Monitoring Results*** – summarizes the monitoring results obtained in the reporting period.
- Section 6**     ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7**     ***Cumulative Construction Impact due to the Concurrent Projects*** – summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.
- Section 8**     ***Environmental Site Audit*** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9**     ***Complaints, Notification of summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10**    ***Conclusion***

## 2 PROJECT BACKGROUND

### 2.1 Background

- 2.1.1. “Wan Chai Development phase II and Central-Wan Chai Bypass” and “Central-Wan Chai Bypass and Island Eastern Corridor Link” (hereafter called “the Project”) are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

### 2.2 Scope of the Project and Site Description

- 2.2.1. Design and Construction of Central – Wan Chai Bypass and Island Eastern Corridor Link under the Project involves the construction and operation of a trunk road and its road tunnel more than 800m in length between portals that is shown at Figure 2.1.

2.2.2. The study area encompasses existing developments from Central to North Point. The scope of the Central-Wanchai Bypass (CWB) and Island Eastern Corridor Link (IECL) includes:

- A dual three-lane trunk road, approximately 4.5 km in length, and tunnel approximately 3.7 km in length defined from the connection with the existing Rumsey Street Flyover in Central, through to a connection with the existing Island Eastern Corridor to the east of the Causeway Bay Typhoon Shelter (CBTS);
- The Central Interchange near the Rumsey Street Flyover to provide road connections to the Central area;
- Tunnel control buildings and ventilation buildings;
- Slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area;
- Associated road lighting, road signing, traffic control and surveillance system; and
- Other associated works.

2.2.3. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. **Table 2.1** summarises the five individual DPs under this Project. **Figure 2.1** shows the locations of these Schedule 2 DPs.

**Table 2.1 Schedule 2 Designated Projects under this Project**

Item	Designated Project	EIAO Reference	Reason for inclusion
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall
DP6	Dredging for the Cross-harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point

### 2.3 Division of the Project Responsibility

2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.

2.3.2. The details of individual contracts are summarized in **Table 2.2**.

**Table 2.2 Details of Individual Contracts under the Project**

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011 (Completed)
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)
HK/2009/01	Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre – Tunnel Works	DP1, DP2	25 August 2011 (Completed)
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East(CWB Tunnel)	DP1	26 April 2011
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP1,DP3	13 July 2011
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011 (Completed)
HK/2012/08	Wan Chai Development Phase II-Central-Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	10 March 2014 (Completed)
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013
HY/2011/08	Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014

## 2.4 Project Organization and Contact Personnel

2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.

2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in [Figure 2.2](#). Key personnel and contact particulars are summarized in [Table 2.3](#):

**Table 2.3 Contact Details of Key Personnel**

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Senior Resident Engineer	Mr. S.K. Lo	3519 9033	2587 1877
	Engineer's Representative for CWB	Chief Resident Engineer	Mr. Dennis Norton	3912 3188	3912 3010
		Chief Resident Engineer	Mr. S. K. Lo	3912 3288	3912 3010
		Chief Resident Engineer	Mr. David Kwan	3650 1888	3665 0106
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Paul Yu	3658 3085	2827 9996
		Environmental Officer	Mr. Samuel Chan	9646-5780	
Chun Wo - CRGL - MBEC Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. David Lau	3758 8879	3757 8901
		Site Agent	Mr. William Luk	3758 6868	
		Deputy Site Agent	Mr. Andrew Cheng	9161 9446	
		Environmental Officer	Mr. M.H. Isa	9884 0810	
		Assistant Environmental Officer	Mr. Nelson Wong	6387 3939	
		Construction Manager (Marine)	Mr. Wingo Wong	9300 2625	
		Construction Manager (Noise Barrier)	Mr. Jerry Siu	9493 3664	
		Construction Manager (Land)	Mr. Yung Kwok Wah	9834 1010	
		Environmental Officer	Mr. Y.K. Wu	3973 1977	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	Mr. Chris Leung	3557 6393	2865 5229
		Site Agent	Mr. Patrick Ho	3557 6405	2566 2192
		Environmental Officer	Mr. Gabriel Wong	6114 9590	
China State	Contractor under Contract no. HY/2010/08	Project Director	Mr. Chris Leung	9210 7116	2566 8061
		Project Manager	Mr. Chan Ying Lun	3418 3001	
		Site Agent	Mr. Thomas Lui	3557 6407	
		Environmental Officer	Mr. Gabriel Wong	3557 6466	



<b>Party</b>	<b>Role</b>	<b>Post</b>	<b>Name</b>	<b>Contact No.</b>	<b>Contact Fax</b>
Leighton Joint Venture	Contractor under Contract no. HY/2011/08	Site Agent	Mr. Colman Wong	2823 1410	21406799
		Environmental Officer	Mr. Y.K. Wu	3973 1977	
Ramboll Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. In this reporting period, the principal work activities of individual contracts are included as follows:

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- [Water Seepage rectification at tunnel.](#)

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- [Bridge noise enclosure construction & road resurfacing works.](#)
- [Hing Fat Street road works.](#)
- [Soft Landscaping works.](#)
- [Open area hard paving & fire main laying works.](#)
- [D9 to D12 and P22 to P25 drainage works.](#)
- [Rumsey Street modification works.](#)

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009/B

- [Drainage improvement works](#)
- [Utility diversion works](#)

Contract no. HY/2011/08 –Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

- [Architectural, builder's work & finishing at all buildings](#)
- [Scaffolding & edge cladding installation work](#)
- [E&M remedial/ maintenance works](#)
- [Roadside directional sign modification works](#)
- [Lifting of TVF at EVB](#)

2.4.4. In coming reporting period, the principal work activities of individual contracts are anticipated as follows:

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Water Seepage rectification at tunnel

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- Bridge noise enclosure construction & road resurfacing works.
- Hing Fat Street road works.
- Soft landscaping works.
- Open area hard paving & fire main laying works.
- D9 to D12 and P22 to P25 drainage works.
- Rumsey Street modification works.

Contract no. HY/2010/08 – Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009/B

- Drainage improvement works
- Utility diversion works

Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

- Architectural, builder's work & finishing at all buildings
- E&M remedial/ maintenance works
- Roadside directional sign modification works
- Lifting of TVF at EVB

### 3 STATUS OF REGULATORY COMPLIANCE

#### 3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in **Table 3.1**.

**Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project**

Permits and/or Licenses	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Surrendered
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Surrendered
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Surrendered
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-08/356/2009	1 Aug 2016	Surrendered
Environmental Permit	EP-364/2009/H	22 Apr 2020	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Surrendered
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Surrendered
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/H	22 Apr 2020	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Surrendered
Further Environmental Permit	FEP-09/364/2009/B	5 Mar 2013	Surrendered
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid
Further Environmental Permit	FEP-11/364/2009/E	22 Dec 2016	Valid
Further Environmental Permit	FEP-12/364/2009/D	01 Aug 2016	Surrendered
Environmental Permit	EP-376/2009	13 Nov 2009	Valid
Further Environmental Permit	FEP-01/376/2009	31 Mar 2015	Surrendered

Permits and/or Licenses	Reference No.	Issued Date	Status
Further Environmental Permit	FEP-02/376/2009	1 Aug 2016	Surrendered

3.1.2. Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:

Contract no. HY/2009/17 – Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works under FEP-03/364/2009

3.1.3. The construction works was completed and the FEP-03/364/2009 was surrendered by the Contractor on 28 March 2013.

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

3.1.4. The construction works was completed, and the FEP-04/HY/2006 was surrendered by the Contractor on 11 February 2011.

Contract no. HK/2010/06 - Wan Chai Development Phase II - Central - Wan Chai Bypass over MTR Tsuen Wan Line under FEP-08/364/2009/A

3.1.5. The construction works was completed, and the FEP-08/364/2009/A was surrendered by the Contractor on 3 October 2014.

Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009

3.1.6. As confirmed with WDII RSS and with respect to the joint inspection conducted with IEC on 25 May 2018, RSS, ET and IEC share the view that there is no adverse environmental impact of remaining works under Contract HK/2009/01 and the respective environmental site inspection and associated monitoring station were temporary suspended from 26 May 2018 onwards. FEP-02/364/2009 was surrendered by the Contractor on 3 September 2018.

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

3.1.7. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-01/364/2009 for contract no. HK/2009/02 are shown in **Table 3.4** and **Table 3.5**.

**Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02**

Permits and/or Licenses	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS1072-19	28 Nov 2019	30 Nov 2019 to 28 May 2020	Expired
Water Discharge License	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
	WT00025276-2016	19 Sep 2016	31 July 2021	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3593-02	22 Sep 2010	N/A	Valid

**Table 3.5 Summary of submission status under FEP-01/364/2009**

EP Condition	Submission	Date of Submission
Condition 2.7 and 2.8	Works Schedule and Location Plan	14 Jun 2011
Condition 2.6	Environmental Management Organization Chart	14 Jun 2011
Condition 1.12	Commencement Date of Works	21 Jun 2011
Condition 2.11	Landscape Plan (Revision B)	20 Nov 2012
Condition 2.9	Noise Management Plan (Revision B)	13 Jan 2012

Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- 3.1.8. The Construction works under HY/2009/15 was confirm completed by the RSS from 27 October 2017 onwards. The weekly site audit inspection and environmental monitoring station were temporary suspended and no longer associated with HY/2009/15 from 27 October 2017 onwards.
- 3.1.9. As confirmed by CWB RSS, the seabed reinstatement works was resumed under Contract HY/2009/15 at EX-PCWA area on 26 June 2019 and the weekly site audit inspection and the associated monitoring station for HY/2009/15 were resumed from 26 June 2019 onwards and report under FEP-04/356/2009 in EP-356/2009 Monthly EM&A Report.
- 3.1.10. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-06/364/2009/A for contract no. HY/2009/15 are shown in **Table 3.8** and **Table 3.9**.

**Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15**

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147-C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid
Construction Noise Permit	N/A	N/A	N/A	N/A
Water Discharge License (Discharge at TS1)	WT00024874-2016	20 Jul 2016	20 Jul 2016 to 31 Mar 2021	Surrendered

**Table 3.9 Summary of submission status under FEP-06/364/2009/A**

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	11 Mar 2011
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule	15 Mar 2011
Condition 2.8	Location Plan	15 Mar 2011
Condition 2.9	Noise Management Plan	6 May 2011



<b>EP Condition</b>	<b>Submission</b>	<b>Date of Submission</b>
Condition 2.10	Landscape Plan (Rev.5)	25 Jan 2018

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

3.1.11. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-07/364/2009/H for contract no. HY/2009/19 are shown in **Table 3.10** and **Table 3.11**.

**Table 3.10 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19**

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/364/2009/G	10 Oct 2019	N/A	Superseded
	FEP-07/364/2009/H	22 Apr 2020	N/A	Valid
Notification of Works Under APCO	326160	24 Jan 2011	N/A	Valid
Notification of Works (further proposed change to the particulars) Under APCO	415587	11 Apr 2017	N/A	Valid
Registration as a Waste Producer	7012306	10 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	N/A	Valid
Application for Vessel Disposal	7013285	21 Jul 2011	N/A	Valid
Construction Noise Permits (CNP) for non-piling equipment	GW-RS0328-20	22-May-20	24-May-20 to 21-Nov-20	Valid
	GW-RS0310-20	18-May-20	01-Jun-20 to 14-Aug-20	Valid
	GW-RS0320-20	20-May-20	22-May to 19-Aug-20	Valid
	GW-RS0341-20	22-May-20	10-Jun-20 to 04-Sep-20	Valid
	GW-RS0146-20	11-Mar-20	14-Mar-20 to 06-Jun-20	Expired
	GW-RS0333-20	19-May-20	21-May-20 to 18-Aug-20	Valid
	GW-RS0197-20	17-Mar-20	01-Apr-20 to 30-Jun-20	Expired
	GW-RS0422-20	24-Jun-20	30-Jun-20 to 31-Jul-20	Valid
	GW-RS0435-20	29-Jun-20	02-Jul-20 to 24-Dec-20	Valid
Water Discharge License	WT00025282-2016	15 Sep 2016	30 Sep 2021	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	WT00035697-2020	19 Jun 2020	30-Jun-25	Valid

**Table 3.11 Summary of submission status under FEP-07/364/2009/H**

EP Condition	Submission	Date of Submission
Condition 2.13	Landscape Plan (Rev.7)	23 March 2020
Condition 2.9	Noise Management Plan (Rev.5)	29 May 2019

Contract no. HY/2010/08 –Central – Wanchai Bypass Tunnel – Tunnel (Slip Road 8) under FEP-10/364/2009/B

3.1.12. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-10/364/2009/B for contract no. HY/2010/08 showed in **Table 3.14 and Table 3.15**.

**Table 3.14 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2010/08**

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
	FEP-07/356/2009	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2 Apr 2013	NA	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C1169-44	27 Mar 2013	NA	Valid
Billing Account under Waste Disposal Ordinance	7017170	27 Mar 2013	NA	Valid
Water Discharge License	WT00031281-2018	31 Jul 2018	31 Jul 2023	Surrendered
Construction Noise Permits (CNP) for non-piling equipment	GW-RS0289-20	29 Apr 2020	4 May 2020 to 29 Oct 2020	Valid
	GW-RS0416-20	26 Jun 2020	29 June 2020 to 22 Oct 2020	Valid

**Table 3.15 Summary of submission status under FEP-10/364/2009/B**

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.3)	03 January 2014
Condition 2.14	Landscape Plan (Rev.2)	19 May 2014
Condition 2.16	<a href="#">Additional Mitigation Plan (Rev.5)</a>	<a href="#">19 February 2020</a>

C

Contract no. HY/2011/08 –Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

3.1.13. The current status on licenses and/or permits on environmental protection pertinent and submission under FEP-11/364/2009/E for contract no. HY/2011/08 showed in **Table 3.16 and Table 3.17**.

**Table 3.16 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2011/08**

Permits and/or Licenses	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	<a href="#">FEP-11/364/2009/E</a>	<a href="#">22 Dec 2016</a>	<a href="#">N/A</a>	<a href="#">Valid</a>
Notification of Works Under APCO	<a href="#">LCAC-EN-LE-00017</a>	<a href="#">7 Mar 2014</a>	<a href="#">N/A</a>	<a href="#">Valid</a>
Registration as a Chemical Waste Producer	<a href="#">5213-121-L2837-01</a>	<a href="#">19 Apr 2016</a>	<a href="#">N/A</a>	<a href="#">Valid</a>
	<a href="#">5213-151-L2837-02</a>	<a href="#">24 May 2016</a>	<a href="#">N/A</a>	<a href="#">Valid</a>
	<a href="#">5213-134-L2898-01</a>	<a href="#">16 Nov 2015</a>	<a href="#">N/A</a>	<a href="#">Valid</a>
	<a href="#">5213-134-L2952-01</a>	<a href="#">12 May 2017</a>	<a href="#">N/A</a>	<a href="#">Valid</a>
Billing Account under Waste Disposal Ordinance	<a href="#">7019640</a>	<a href="#">27 Mar 2014</a>	<a href="#">N/A</a>	<a href="#">Valid</a>
Construction Noise Permits (CNP) for non-piling equipment	<a href="#">GW-RS1125-19</a>	<a href="#">20 Dec 2019</a>	<a href="#">22 Dec 2019 to 19 Jun 2020</a>	<a href="#">Expired</a>
	<a href="#">GW-RS1167-19</a>	<a href="#">31 Dec 2019</a>	<a href="#">3 Jan 2020 to 10 Jun 2020</a>	<a href="#">Expired</a>
	<a href="#">GW-RS0190-20</a>	<a href="#">25 Mar 2020</a>	<a href="#">30 Mar 2019 to 29 Sep 2020</a>	<a href="#">Valid</a>
	<a href="#">GW-RS0191-20</a>	<a href="#">25 Mar 2020</a>	<a href="#">30 Mar 2020 to 29 Sep 2020</a>	<a href="#">Valid</a>
	<a href="#">GW-RS0192-20</a>	<a href="#">25 Mar 2020</a>	<a href="#">30 Mar 2020 to 29 Sep 2020</a>	<a href="#">Valid</a>
	<a href="#">GW-RS0214-20</a>	<a href="#">1 Apr 2020</a>	<a href="#">10 Apr 2020 to 9 Oct 2020</a>	<a href="#">Valid</a>
	<a href="#">GW-RS0401-20</a>	<a href="#">16 Jun 2020</a>	<a href="#">3 Jul 2020 to 31 Jul 2020</a>	<a href="#">Valid</a>

Permits and/or Licenses	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Water Discharge License	WT00025858-2016	17 Oct 2016	31 Oct 2021	Valid
	WT00026829-2017	14 Jun 2017	31 Jan 2022	Valid
	WT00027343-2017	01 Mar 2017	31 Mar 2022	Valid
	WT00028343-2017	09 Aug 2017	31 Aug 2022	Valid

**Table 3.17 Summary of submission status under FEP-11/364/2009/E**

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.4)	08 Nov 2016
Condition 2.14	Landscape Plan (Rev.5)	13 Feb 2020
Condition 2.13 a)	Operational Air Quality Management Plan for West Ventilation Building (Rev.0)	25 Nov 2014
Condition 2.13 b)	Operational Air Quality Management Plan for Central Ventilation Building (Rev.0)	03 Mar 2017
Condition 2.13 c)	Operational Air Quality Management Plan for East Ventilation Building and East Vent Shaft (Rev.0)	18 Feb 2015
Condition 2.13 d)	Operational Air Quality Management Plan for an Electrostatic Precipitator system for EVB Operation (Rev.0)	06 Apr 2017
Condition 2.13 e)	Operational Air Quality Management Plan for ventilation system of Eastern Portal of the CWB Tunnel (Rev.0)	23 Oct 2016

## 4 MONITORING REQUIREMENTS

### 4.1 Noise Monitoring

#### NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in **Table 4.1** and **Figure 4.1**. **Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

**Table 4.1 Noise Monitoring Stations**

Station	Description
M1a***	Footbridge for Ex-Harbour Road Sports Centre
M2b	Noon-day Gun Area
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School
M7a	Harbour Building
M7e*	International Finance Centre (Eastern End of Podium)
M7w	International Finance Centre (Western End of Podium)
M8**	City Hall

Remark \*: Location ID has been updated from M7 to M8 for City Hall

Remark \*\*: M7e has become a reference station starting from 7 Aug 2012

Remarks\*\*\*: The location ID of monitoring station M1a was updated as "Footbridge for Ex-Harbour Road Sports Centre" in May 2017.

#### REAL TIME NOISE MONITORING STATIONS

4.1.2. The noise monitoring stations for the Project are listed and shown in **Table 4.2** and **Figure 4.1**. **Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

**Table 4.2 Real Time Noise Monitoring Stations**

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitfield Depot
North Point	RTN2a	Hong Kong Electric Centre
North Point	RTN3	Po Leung Kuk Yu Lee Mo Fan Memorial School
Tin Hau	RTN4	Causeway Bay Community Centre

### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.3. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{eq}$  (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods,  $L_{eq}$  (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as  $L_{10}$  and  $L_{90}$  shall also be obtained for reference.
- 4.1.4. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
- One set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.5. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 - hours basis when noise generating activities are underway:
- One set of measurements between 0700 and 1900 hours on normal weekdays.
  - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
  - One set of measurements between 2300 and 0700 hours on next day on everyday.
- 4.1.6. If construction works are extended to include works during the hours of 1900 – 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

### MONITORING EQUIPMENT

- 4.1.7. As referred to in the Technical Memorandum <sup>TM</sup> issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.8. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 4.1.9. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements will be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

**4.2 Air Quality Monitoring**

AIR QUALITY MONITORING STATIONS

4.2.1. The air quality monitoring stations for the Project are listed and shown in **Table 4.3 and Figure 4.1**. **Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

**Table 4.3 Air Quality Monitoring Stations**

Station ID	Monitoring Location	Description
CMA1b	Harbour Grand Hotel Boundary Wall**	North Point (Re-commenced on 14 November 2011)
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5b	Pedestrian Plaza***	Wan Chai
MA1e	International Finance Centre (Eastern End of Podium)	Central
MA1w	International Finance Centre (Western End of Podium)	Central
MA1b	Harbour Building	Central

Remarks\*: As per the ENPC meeting in March 2011, the monitoring stations CMA3a – Future CWB site office at Wanchai Waterfront Promenade was renamed as remark.

Remarks\*\*: The location ID of monitoring station CMA1b was updated as “Oil Street Site Office” in April 2013. The location ID of monitoring station CMA1b was updated as “Harbour Grand Hotel Boundary Wall” with respect to the fine adjustment of monitoring station from the Oil Street Site Office to Harbour Grand Hotel Boundary Wall from 05 June 2017 onwards due to demolition of Oil Street Site Office.

Remarks\*\*\*: The station ID and monitoring location was updated in December 2014 with respect to monitoring station relocation.

Remarks\*\*\*\*: The permission of setting up air monitoring station in the premise was under liaison and will be installed at the agreed location with the IEC once permission from the premise is granted.

AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP

monitoring, the sampling frequency of at least three times in every six days should be undertaken when the highest dust impact occurs.

#### SAMPLING PROCEDURE AND MONITORING EQUIPMENT

4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:

- 0.6 – 1.7 m<sup>3</sup> per minute adjustable flow range;
- Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
- Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- Capable of providing a minimum exposed area of 406 cm<sup>2</sup>;
- Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- Equipped with a shelter to protect the filter and sampler;
- Incorporated with an electronic mass flow rate controller or other equivalent devices;
- Equipped with a flow recorder for continuous monitoring;
- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.

4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

#### LABORATORY MEASUREMENT / ANALYSIS

4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.

4.2.8. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24 hours and be pre-weighed before use for the sampling.

4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.

4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.

4.2.11. Current calibration certificates of equipments are presented in **Appendix 4.2**.

## 5 MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designated project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in **Figure 2.1** and **Figure 4.1**. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting period, the concurrent contracts are as follows:
- Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
  - Contract no. HY/2010/08 – Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
  - Contract no. HK/2009/02 - Wan Chai Development Phase II – Central - Wan Chai Bypass at Wan Chai East
  - Contract no. HK/2012/08 - Wan Chai Development Phase II – Central - Wan Chai Bypass at Wan Chai West
  - Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB)– Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning
- 5.0.3. The environment monitoring schedules for reporting period and coming month are presented in **Appendix 5.1**.

**5.1 Noise Monitoring Results**

5.1.1 Monitoring for report of review baseline noise level was performed from 11 April 2011 to 8 June 2011. Then the report was submitted on the 20 June 2011, verified by IEC on 18 July 2011 and was approved by ER by January 2012. The new baseline is used for the noise calculation starting from January 2012.

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

5.1.2 The commencement of construction works for HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of noise monitoring stations are summarized in **Table 5.2** below.

**Table 5.2 Noise Monitoring Station for Contract no HK/2009/02**

Station	Description
M1a	Footbridge for Ex-Harbour Road Sports Centre

5.1.3 [No action or limit level exceedance was recorded in the reporting period.](#)

5.1.4 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

5.1.5 Noise monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 24 April 2011. The proposed division of noise monitoring stations are summarized in **Table 5.4** below.

**Table 5.4 Noise Monitoring Stations for Contract no. HY/2009/19**

Station	Description
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School
<a href="#">M7a</a>	<a href="#">Harbour Building</a>

5.1.6 [No action or limit level exceedance was recorded in the reporting period.](#)

5.1.7 [Noise monitoring at M4b - Victoria Centre was temporarily relocated to the G/F of Victoria Centre due to the access difficulty on 23 March 2020. The temporary noise monitoring point for M4b has been proposed and agreed by the IEC at the G/F of Victoria Centre. Noise monitoring for M4b will resume to original location upon completion of maintenance works for the premises.](#)

5.1.8 [Noise monitoring at M7a – Harbour Building was temporarily relocated to the G/F of Harbour Building due to the access permission from the management of Harbour Building in progress](#)

in the reporting period. Noise monitoring for M7a – Harbour Building will resume to original location when the access permission is granted.

- 5.1.9 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**.

Contract no. HY/2010/08 – Central-Wanchai Bypass –Wanchai Bypass Tunnel (Slip Raod 8 Section) under FEP-10/364/2009/B

- 5.1.10 The commencement of construction works for Contract no. HY/2010/08 under FEP-10/364/2009/B was on 02 September 2013. Noise monitoring was commenced on 02 September 2013. The proposed divisions of noise monitoring stations are summarized in **Table 5.5** below.

**Table 5.5 Noise Monitoring Stations for Contract no. HY/2010/08**

Station	Description
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station

- 5.1.11 As confirmed with CWB RSS, junction modification works in Central area would be conducted by Contract HY/2010/08 starting from July 2018 and tentatively completed in September 2018. The noise monitoring station M7e - International Finance Centre (Eastern End of Podium), M7w - International Finance Centre (Western End of Podium) and M8 – City Hall would tentatively associated with Contract HY/2010/08.
- 5.1.12 As confirmed with Resident Site Staff, the junction modification under Contract HY/2010/08 at Central Area was generally completed while the remaining works was considered to be no adverse impact and not related to DP works. As such, The noise monitoring station M7e - International Finance Centre (Eastern End of Podium), M7w - International Finance Centre (Western End of Podium) and M8 – City Hall would no longer associated with Contract HY/2010/08 in August 2019 reporting month.
- 5.1.13 **No action or limit level exceedance was recorded in the reporting period.**
- 5.1.14 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**.

Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

- 5.1.15 Noise monitoring for the Central Interchange works under contract no. HY/2011/08 was commenced on 22 April 2011. The proposed division of noise monitoring stations for Contract no. HY/2011/08 are summarized in **Table 5.6** below:

**Table 5.6 Noise Monitoring Stations for Contract no. HY/2011/08**

Station	Description
M4b	Victoria Centre
*M7e	International Finance Centre (Eastern End of Podium)
M7w	International Finance Centre (Western End of Podium)
M8	City Hall

\* Remark: M7e has become a reference station starting from 7 Aug 2012

- 5.1.16 As confirmed with CWB RSS, major construction works and landscape works associated with WVB and nearby roads under HY/2011/08 are completed and only minor defects rectification works within WVB and tunnel area remain, in view of the defects rectification works are minor and are carried out in indoor area, it is considered that no adverse noise impacts will be caused to nearby sensitive receivers. The noise monitoring station M7e - International Finance Centre (Eastern End of Podium), M7w - International Finance Centre (Western End of Podium) and M8 – City Hall would no longer associated with Contract HY/2011/08 were temporary suspended on 16 June 2020.
- 5.1.17 No action or limit level exceedance was recorded in the reporting period.
- 5.1.18 Noise monitoring at M4b - Victoria Centre was temporarily relocated to the G/F of Victoria Centre due to the access difficulty on 23 March 2020. The temporary noise monitoring point for M4b has been proposed and agreed by the IEC at the G/F of Victoria Centre. Noise monitoring for M4b will resume to original location upon completion of maintenance works for the premises.
- 5.1.19 Noise monitoring at M8 - City Hall was temporarily suspended from 2 February 2020 to the end of reporting period as the City Hall was temporarily closed due to public health concern. A temporary noise monitoring point for M8 has been proposed and agreed by the IEC at the entrance of the City Hall. Noise monitoring for M8 was resumed at the temporary noise monitoring point at the entrance of the City Hall on 26 February 2020. Noise monitoring for M8 - City Hall was resumed to original location at the podium on 3 June 2020.
- 5.1.20 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**.

**5.2 Real Time Noise Monitoring Results**

- 5.2.1. Real time noise monitoring at RTN4-Causeway Bay Community Centre was commenced on 13 Jan 2013. The baseline noise level of RTN4- Causeway Bay Community Centre has adopted the results from the baseline noise monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.
- 5.2.2. Po Leung Kuk Yu Lee Mo Fan Memorial School granted permission for set up on 4 Sep 2012 and real time noise monitoring station RTN3 set up was performed on 14 Sep 2012. Real time noise baseline capturing was conducted during time period without construction work from 21 Sep 2012 to 04 Oct 2012. Real time noise monitoring at RTN3 – Po Leung Kuk Yu Lee Mo Fan Memorial School was commenced since 06 Oct 2012.
- 5.2.3. Real-time noise monitoring station RTN2 previously located at oil Street Community Liaison Centre was relocated to Hong Kong Electric Centre on 5 Oct 2012, which is a representative of the noise sensitive receiver City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted at Hong Kong Electric Centre from 4 December 2009 to 17 December 2009.
- 5.2.4. Real-time noise monitoring station RTN1-FEHD Whitfield Depot was finely adjusted from 2/F to roof-top at FEHD Whitfield Depot on 24 June 2013 with respect to the commencement of advance works for IEC parapet demolition.
- 5.2.5. With respect to the non-CWB Project building construction at Oil Street, the real-time noise monitoring station RTN2a- Hong Kong Electric Centre was finely adjusted from Northeast Side to Northwestern side at Roof Top location on 03 March 2017.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- 5.2.6. The proposed division of noise monitoring stations are summarized in **Table 5.7** below. Real time noise monitoring for major construction works under contract no. HY/2009/19 was commenced on 24 April 2011.

**Table 5.7 Real Time Noise Monitoring Stations for Contract no. HY/2009/19**

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitfield Depot
RTN2a	North Point	Hong Kong Electric Centre
RTN3	North Point	Po Leung Kuk Yu Lee Mo Fan Memorial School
RTN4	Tin Hau	Causeway Bay Community Centre

*\* Real time noise monitoring results and graphical presentation during restrict hours and night time period are for information only and noise during CNP period shall be controlled under NCO.*

- 5.2.7. [No action or limit level exceedance was recorded at RTN1 – FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.](#)
- 5.2.8. [No action or limit level exceedance was recorded at RTN2a - Hong Kong Electric Centre in the reporting period.](#)

- 5.2.9. Real Time Noise Monitoring at RTN3 - Yu Lee Mo Fan Memorial School was temporary suspended from 31 January 2020 as the school is temporarily closed and refused our access for station maintenance due to public health concern. Real Time Noise Monitoring at RTN3 will be resumed when the access to the school for station maintenance is granted.
- 5.2.10. No action or limit level exceedance was recorded at RTN4 – Causeway Bay Community Centre in the reporting period.
- 5.2.11. Real time noise monitoring results measured in this reporting period are reviewed and summarized. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.4.**

Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

- 5.2.12. The proposed division of noise monitoring stations are summarized in **Table 5.8** below. Real time noise monitoring for major construction works under contract no. HY/2011/08 was commenced on 19 March 2015.

**Table 5.8 Real Time Noise Monitoring Stations for Contract no. HY/2011/08**

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitfield Depot
RTN2a	North Point	Hong Kong Electric Centre
RTN4	Tin Hau	Causeway Bay Community Centre

*\*Real time noise monitoring results and graphical presentation during restrict hours and night time period are for information only and noise during CNP period shall be controlled under NCO.*

- 5.2.13. No action or limit level exceedance was recorded at RTN1 – FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 5.2.14. No action or limit level exceedance was recorded at RTN2a - Hong Kong Electric Centre in the reporting period.
- 5.2.15. No action or limit level exceedance was recorded at RTN4 – Causeway Bay Community Centre in the reporting period.

**5.3 Air Quality Monitoring Results**

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

5.3.1 The commencement of construction works for HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of air quality monitoring stations are summarized in **Table 5.11** below.

**Table 5.11 Air Quality Monitoring Station for Contract no. HK/2009/02**

Station	Description
CMA3a	CWB site office at Wanchai Waterfront Promenade
CMA4a	Society for the Prevention of Cruelty to Animals

5.3.2 [No action or limit level exceedance was recorded in the reporting period.](#)

5.3.3 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in **Appendix 5.3**.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

5.3.4 The proposed division of air quality monitoring stations are summarized in **Table 5.13** below. Air quality monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 26 April 2011.

**Table 5.13 Air Quality Monitoring Stations for Contract no. HY/2009/19**

Station	Description
CMA1b	Harbour Grand Hotel Boundary Wall
CMA2a	Causeway Bay Community Centre
MA1b	Harbour Building

5.3.5 [No action or limit level exceedance was recorded in the reporting period.](#)

5.3.6 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in **Appendix 5.3**.

Contract no. HY/2010/08 – Central-Wanchai Bypass –Wanchai Bypass Tunnel (Slip Raod 8 Section) under FEP-10/364/2009/B

5.3.7 The commencement of construction works for Contract no. HY/2010/08 under FEP-10/364/2009/B was on July 2014. Air quality monitoring was commenced on 14 July 2011. The proposed division of air quality monitoring stations are summarized in **Table 5.15** below.

**Table 5.15 Air Quality Monitoring Station for Contract no. HY/2010/08**

Station	Description
CMA3a	CWB PRE Site Office

5.3.8 As confirmed with CWB RSS, junction modification works in Central area would be conducted by Contract HY/2010/08 starting from July 2018 and tentatively completed in September 2018. The air quality monitoring station MA1e - International Finance Centre (Eastern End of Podium) and MA1w - International Finance Centre (Western End of Podium) would tentatively associated with Contract HY/2010/08.

5.3.9 As confirmed with Resident Site Staff, the junction modification under Contract HY/2010/08 at Central Area was generally completed while the remaining works was considered to be no adverse impact and not related to DP works. As such, the air quality monitoring station MA1e - International Finance Centre (Eastern End of Podium) and MA1w - International Finance Centre (Western End of Podium) would no longer associated with Contract HY/2010/08 in August 2019 reporting month.

5.3.10 [No action or limit level exceedance was recorded in the reporting period.](#)

5.3.11 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in **Appendix 5.3**.

Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

5.3.12 Air quality monitoring for the Central Interchange works under contract no. HY/2011/08 was commenced on 21 April 2011. The proposed division of air quality monitoring stations are summarized in **Table 5.16** below.

**Table 5.16 Air Quality Monitoring Stations for Contract no. HY/2011/08**

Station	Description
MA1e	International Finance Centre (Eastern End of Podium)
MA1w	International Finance Centre (Western End of Podium)
CMA1b	Harbour Grand Hotel Boundary Wall
CMA2a	Causeway Bay Community Centre
CMA5b	Pedestrian Plaza

5.3.13 [As confirmed with CWB RSS, major construction works and landscape works associated with WVB and nearby roads under HY/2011/08 are completed and only minor defects rectification works within WVN and tunnel area remain, in view of the defects rectification works are minor and are carried out in indoor area, it is considered that no adverse air quality impacts will be](#)

caused to nearby sensitive receivers. The air quality monitoring station MA1e - International Finance Centre (Eastern End of Podium) and MA1w - International Finance Centre (Western End of Podium) would no longer associated with Contract HY/2011/08 and were temporary suspended on 16 June 2020.

- 5.3.14 No action or limit level exceedance was recorded in the reporting period.
- 5.3.15 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in **Appendix 5.3**.

**5.4 Waste Monitoring Results**

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

5.4.1. Inert C&D & non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in **Table 5.18**.

**Table 5.18 Details of Waste Disposal for Contract no. HK/2009/02**

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	Nil	551653.03	TKO137, TM 38
Inert C&D materials recycled, m <sup>3</sup>	Nil	46520	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	0.83	6462.61	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	Nil	N/A	N/A
Chemical waste disposed, kg	Nil	17718	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	Nil	65663	South Cheung Chau

Remarks: the conversion factor of Inert C&D materials disposed should be 2.0.

Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

5.4.2. No inert & Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in **Table 5.20**.

**Table 5.20 Details of Waste Disposal for Contract no. HY/2009/15**

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	Nil	625202.92	Tuen Mun Area 38
	Nil	245453.3	TKO137 FB
Inert C&D materials recycled, m <sup>3</sup>	Nil	358660.77	HY/2009/11 ex-PCWA TS4 /TS2 WDII Lun Ku Tan WENT HY/2010/08
Non-inert C&D materials disposed, m <sup>3</sup>	Nil	4675.67	SENT Landfill
	Nil	1.58	WENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	Nil	5496446.2	Xun Xiang Metalware Skylight Recycle (paper)

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Chemical waste disposed, kg	Nil	22755	Dunwell Group
Marine Sediment (Type1-Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	Nil	5684	South of the Brothers

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

5.4.3. Inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in **Table 5.21**.

**Table 5.21 Details of Waste Disposal for Contract no. HY/2009/19**

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, ton	148.02	823336.91	TKO137
Inert C&D materials recycled, ton	Nil	82349.7	N/A
Non-inert C&D materials disposed, ton	54.88	8902.02	SENT Landfill
Non-inert C&D materials recycled, ton	Nil	565.63	N/A
Chemical waste disposed, ton	0	16.29	N/A
Marine Sediment (Tunnel) (Type-1 Open Sea Disposal), m <sup>3</sup>	Nil	20737.96	South of Cheung Chau
Marine Sediment (Tunnel) (Type 1- Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	Nil	30751	East of Sha Chau
Marine Sediment (Approach Ramp) (Type 2 – Confined Marine Disposal), m <sup>3</sup>	Nil	6491	East of Sha Chau

Contract no. HY/2010/08 Central – Wan Chai Bypass (CWB) – Tunnel (Slip Road 8) under FEP-10/364/2009/B

5.4.4. Inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in **Table 5.23**.

**Table 5.23 Details of Waste Disposal for Contract no. HY/2010/08**

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds	Contract no.
Inert C&D materials disposed, m <sup>3</sup>	134.34	598042.49	TM 38 / CW / TKO137SF	HY/2011/08
	Nil	262656.6	WENT	
	Nil	82911.8	SENT	
	Nil	72711.86	TKO area 137	
Inert C&D materials recycled, m <sup>3</sup>	Nil	Nil	N/A	Central -
Non-inert C&D materials disposed, m <sup>3</sup>	Nil	6579.49	SENT / WENT	Central -
Non-inert C&D materials recycled, m <sup>3</sup>	Nil	Nil	N/A	Wan
Chemical waste disposed, kg	Nil	1431	N/A	Chai
Type 1 – Open Sea Disposal, m <sup>3</sup>	Nil	16753.225	East Sha Chau/ South Brothers Island	Bypa
Type 2 – Confined Marine disposal, m <sup>3</sup>	Nil	1243.2	East Sha Chau	ss (CW B) – Tunn

el Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

5.4.5. Inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in **Table 5.24**.

**Table 5.24 Details of Waste Disposal for Contract no. HY/2011/08**

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	Nil	8585.824	CWPF & TKO137
Inert C&D materials recycled, m <sup>3</sup>	Nil	Nil	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	26.089	9248.990	SENT
Non-inert C&D materials recycled, ton	Nil	347.12	N/A
Chemical waste disposed, kg	Nil	3800	N/A

## 6 COMPLIANCE AUDIT

6.0.1. The Event Action Plan for construction noise, air qualities are presented in **Appendix 6.1**.

### 6.1 Noise Monitoring

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

6.1.1. No action or limit level exceedance was recorded in the reporting period.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

6.1.2. No action or limit level exceedance was recorded in the reporting period.

Contract no. HY/2010/08 – Central-Wanchai Bypass – Tunnel (Slip Raod 8 Section) under FEP-10/364/2009/B

6.1.3. No action or limit level exceedance was recorded in the reporting period.

Contract no. HY/2011/08 Central –Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

6.1.4. No action or limit level exceedance was recorded in the reporting period.

### 6.2 Real Time Noise Monitoring

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

6.2.1. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitfield Depot. No action or limit level exceedance was recorded in the reporting period.

6.2.2. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. No action or limit level exceedance was recorded in the reporting period.

6.2.3. 24-hour real time noise monitoring at RTN3 - Yu Lee Mo Fan Memorial School was temporary suspended from 31 January 2020 as the school is temporarily closed and refused our access for station maintenance due to public health concern. Real Time Noise Monitoring at RTN3 will be resumed when the access to the school for station maintenance is granted.

6.2.4. 24-hour real time noise monitoring was conducted at RTN4 – Causeway Bay Community Centre. No action or limit level exceedance was recorded in the reporting period.

Contract no. HY/2011/08 Central –Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

6.2.5. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitfield Depot. No action or limit level exceedance was recorded in the reporting period.

6.2.6. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. No action or limit level exceedance was recorded in the reporting period.

6.2.7. 24-hour real time noise monitoring was conducted at RTN4 – Causeway Bay Community Centre. No action or limit level exceedance was recorded in the reporting period.

### 6.3 Air Quality Monitoring

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

6.3.1. No action or limit level exceedance was recorded in the reporting period.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

6.3.2. No action or limit level exceedance was recorded in the reporting period.

Contract no. HY/2010/08 – Central-Wanchai Bypass – Tunnel (Slip Raod 8 Section) under FEP-10/364/2009/B

6.3.3. No action or limit level exceedance was recorded in the reporting period.

Contract no. HY/2011/08 Central –Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

6.3.1 No action or limit level exceedance was recorded in the reporting period.

### 6.4 Review of the Reasons for and the Implications of Non-compliance

6.4.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendation made in each individual site audit session were presented in Section 8.

### 6.5 Summary of action taken in the event of and follow-up on non-compliance

6.5.1 No particular action was taken for site audits since non-compliance was recorded in the reporting period.

## **7 CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS**

- 7.0.1. According to Condition 3.4 of the EP-364/2009/H, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting period.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area, no works was conducted in June 2020 reporting period. In view of the above, the cumulative construction impact due to the Central Reclamation Phase III (CRIII) was not anticipated.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, no construction works under Wan Chai Development Phase II was conducted at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ventilation building ABWF works and modification works at Central; drainage improvement work and utility diversion works at Victoria Park; bridge noise enclosure installation works, road works, drainage works, soft landscape works and ventilation building ABWF work at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects were observed undertaken at Wan Chai North and North Point area.
- 7.0.5. As relevant site mitigation measures for air quality and construction noise were implemented, no significant air quality impact and noise impact from construction activities was concluded in the reporting period. Besides, no construction work was conducted at EP-122 area in the reporting period. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II (WDII), Central- WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.

**8 ENVIRONMENTAL SITE AUDIT**

- 8.0.1. During this reporting period, weekly environmental site audits were conducted for Contracts HY/2009/19, HK/2009/02, HY/2010/08 and HY/2011/08. No non-conformance was identified during the site audits. The Contractors rectified major observations and recommendations made during the audit sessions.
- 8.0.2. Site inspections for Contract no. HY/2009/19 were carried out during this reporting period. No observation was found in the reporting period.
- 8.0.3. Site inspections for Contract no. HK/2009/02 were carried out during this reporting period. No observation was found in the reporting period.
- 8.0.4. Site inspections for Contract no. HY/2010/08 were carried out during this reporting period. No observation was found in the reporting period.
- 8.0.5. Site inspections for Contract no. HY/2011/08 were carried out during this reporting period. No observation was found in the reporting period.

Mitigation measures implemented to prevent muddy discharge and surface runoff

8.0.6. With a view to ensure the adequacy and effectiveness of measures to prevent the discharge of muddy water, including surface run-off, from construction works, the following mitigation measures were implemented by Contractor(s) in the reporting period:

Contract No.	Mitigation Measures implemented
HK/2009/02	<ul style="list-style-type: none"> <li>• Most of the works would potentially generate wastewater was completed. Contractor will regular review the muddy discharge and surface runoff concern depends on the remaining works</li> </ul>
HY/2010/08	<ul style="list-style-type: none"> <li>• Most of the land based construction works was completed. Contractor will regular review the muddy discharge and surface runoff concern depends on the remaining works</li> </ul>
HY/2009/19	<ul style="list-style-type: none"> <li>• Deployment of embankment along seawall</li> <li>• Hard paved the area along seafront</li> <li>• Cover the stockpile material to avoid excessive surface runoff</li> <li>• Avoid storage of stockpile material along seafront</li> <li>• Regular review and maintenance of the site drainage system</li> <li>• Regular review dosage of wastewater treatment unit to ensure the discharge compliance</li> </ul>
HY/2011/08	<ul style="list-style-type: none"> <li>• Most of the works would potentially generate wastewater was completed. Contractor will regular review the muddy discharge and surface runoff concern depends on the remaining works.</li> </ul>

**9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION**

- 9.0.1. No environmental complaints, summons and prosecution were received during the reporting period.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 9.1** and **Table 9.2** respectively.

**Table 9.1 Cumulative Statistics on Complaints**

Reporting Period	No. of Complaints
June 2020	0
September 2010 – May 2020	106
<b>Total</b>	<b>106</b>

**Table 9.2 Cumulative Statistics on Successful Prosecutions**

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	1	0	1
Noise	10	0	10
Water	2	0	2
Waste	0	0	0
<b>Total</b>	<b>13</b>	<b>0</b>	<b>13</b>

**10 CONCLUSION**

10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.

10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in **Table 10.1**. The construction programmes of individual contracts are provided in [Appendix 10.1](#).

**Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting period**

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/19	<ul style="list-style-type: none"> <li>• Bridge noise enclosure installation and parapet construction works.</li> <li>• Hing Fat Street road works.</li> <li>• Soft landscaping works.</li> <li>• Open area hard paving &amp; fire main laying works.</li> <li>• D9 to D12 and P22 to P25 drainage works.</li> <li>• Rumsey Street modification works.</li> </ul>	<ul style="list-style-type: none"> <li>• Noise level shall be controlled by reducing the breaking operation rate.</li> <li>• Noise barrier shall be implemented</li> <li>• Dust control during dust generating works</li> <li>• Ensure proper deployment of silt curtain around marine construction works area</li> <li>• Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea.</li> </ul>
HY/2010/08	<ul style="list-style-type: none"> <li>• Drainage improvement works</li> <li>• Utility diversion works</li> <li>• Junction modification</li> </ul>	<ul style="list-style-type: none"> <li>• Dust control during dust generating works and stockpile stored on site.</li> <li>• Appropriate measures should be taken to ensure adequate protections are provided for trees being transplanted and retained on site.</li> <li>• Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>
HK/2009/02	<ul style="list-style-type: none"> <li>• Water Seepage rectification at tunnel</li> </ul>	<ul style="list-style-type: none"> <li>• Dust control during dust generating works</li> <li>• Proper maintenance boundary surface runoff protection and water treatment facilities to avoid potential runoff related impact</li> <li>• Provision of protection measures to ensure no runoff out of site area or direct discharge into public drainage system.</li> <li>• Strictly follow the Construction Noise</li> </ul>

Contract No.	Key Construction Works	Recommended Mitigation Measures
		Permit condition during construction work in restricted hour and provision of control system to ensure the permit compliance.
HY/2011/08	<ul style="list-style-type: none"> <li>• Architectural, Builder's Work &amp; Finishing at all buildings</li> <li>• E&amp;M remedial/ maintenance works</li> <li>• Roadside directional sign modification works</li> <li>• Lifting of TVF at EVB</li> </ul>	<ul style="list-style-type: none"> <li>• Dust control during dust generating works</li> </ul>

10.0.3. The construction works of Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A was completed, and the FEP was surrendered by the Contractor on 11 February 2011.

10.0.4. The construction works of Contract no. HY/2009/17 - Advance piling works at Whitfield Depot under FEP-03/264/2009 was completed, and the FEP was surrendered by the Contractor and found in order by EPD on 25 April 2013.

10.0.5. The construction works of Contract HK/2010/06 was completed, and the FEP-08/364/2009/A was surrendered by the Contractor on 3 October 2014.

10.0.6. The Construction works under HY/2009/15 was confirm completed by the RSS from 27 October 2017 onwards.

As confirmed by CWB RSS, the seabed reinstatement works was resumed under Contract HY/2009/15 at EX-PCWA area on 26 June 2019 and the weekly site audit inspection and the associated monitoring station for HY/2009/15 were resumed from 26 June 2019 onwards and report under FEP-04/356/2009 in EP-356/2009 Monthly EM&A Report.

10.0.7. The Construction works under HY/2009/18 was confirm completed by the RSS from 25 April 2018 onwards

10.0.8. As confirmed with WDII RSS and with respect to the joint inspection conducted with IEC on 25 May 2018, RSS, ET and IEC share the view that there is no adverse environmental impact of remaining works under Contract HK/2009/01 and the respective environmental site inspection was temporary suspended from 26 May 2018 onwards. FEP-02/364/2009 was surrendered by the Contractor on 3 September 2018.